Registration for the Statistical Workshop is now closed.

Please notify tportante-lyle@neiwpcc.org if you would like to be put on a cancellation list.

Statistical Workshop for Water Resource Managers

38th Annual NEAEB Pre-Conference Workshop

Burlington, VT

March 25-26, 2014

This workshop is designed for water resource managers who are looking for an ecological statistics refresher course and want to gain basic to intermediate skills in using R (an open source statistical program) to explore and analyze ecological data sets. The goal of the workshop is to provide a general guide to data exploration and choosing appropriate analytical techniques for a specific dataset. The following items will be covered: Data import/export, basic handling of data, parametric techniques (e.g., ANOVA and Linear Regression), Testing parametric assumptions, Non-parametric Inference and Alternatives (e.g., LOESS, Quantile Regression), Overdispersion, Collinearity, and an Overview of common multivariate techniques (e.g., ANCOVA, NMDS). This is a two day instructor led workshop. Participants are encouraged to bring their own lab-top to follow along with the instructor, who will provide example datasets and worksheets. The workshop will be taught by Dr. Matthew Baker, an Associate Professor at the University of Maryland, Baltimore County. Prerequisites: Familiarity with basic statistical concepts and methods used in the natural sciences and some experience using R. Please direct your questions to tportante-lyle@neiwpcc.org.

Click to register!

The workshop will be limited to 30 participants.

Registration fee: $55

Meal Ticket Cost: Breakfast $16.50, Lunch $25.50

This workshop is funded by an agreement awarded by the Unites States Environmental Protection Agency under agreement I00199111 to the New England Interstate Water Pollution Control Commission.

NEIWPCC
New England Interstate Water Pollution Control Commission

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Statistical Workshop Agenda

Tuesday 3/25

8:00 am	*Breakfast*
8:30 am	Introduction
8:45 am	Data Import/Export, Basic Handling
	Parametric Assumptions
10:00 am	Break
10:30 am	ANOVA and Linear Regression
	Testing parametric assumptions: Homogeneity
12:00 pm	*Lunch*
1:00 pm	Testing parametric assumptions: Normality
	Non-parametric Inference and Alternatives (e.g., Kruskal Wallace)
3:00 pm	*Break*
3:30 pm	LOESS
	Quantile Regression
5:00 pm	*End*

Wednesday 3/26

8:00 am	*Breakfast*
8:30 am	Introduction/Recap of Day 1
8:45 am	Collinearity
10:00 am	*Break*
10:30 am	ANCOVA, Partial Correlation/Regression, Partial Mantel
12:00 pm	*Lunch*
1:00 pm	Overview of Multivariate Techniques
3:00 pm	*Break*
3:30 pm	Overview of Multivariate Techniques
5:00 pm	*End*